Examination event

- **Patient Header**
  - Demographics
    - Date of birth
    - Current Address
    - Home Address if different
    - Current Phone
    - Home phone if different
    - GP Code
    - GP Practice Code
  - Alert
    - Allergies
    - Risks
- **Personal**
  - Death Date
  - Deceased
  - Religion
  - Ethnic Origin
  - Living arrangement
    - openEHR-EHR-EVALUATION.living_arrangement.v0
  - Occupation
    - openEHR-EHR-EVALUATION.occupation_summary.v1
  - Communication Preferences
    - Communication capability, Published archetype [Internet]. openEHR Foundation, openEHR Clinical Knowledge Manager [cited: 2021-02-16]. Available from: https://ckm.openehr.org/ckm/archetypes/1013.1.3155

    Needs to line up with soclai care work
  - Contacts 10
- **Global**

- Risks
  - openEHR-EHR-EVALUATION.precaution.v1
- Social History
  - Smoking
    - openEHR-EHR-EVALUATION.tobacco_smoking_summary.v1
  - Alcohol
    - openEHR-EHR-EVALUATION.alcohol_consumption_summary.v1
  - Substance use
    - openEHR-EHR-EVALUATION.substance_use_summary.v0
- Allergies
  - openEHR-EHR-EVALUATION.adverse_reaction_risk.v1
- Family History
  - openEHR-EHR-EVALUATION.family_history.v2
- Birth History
  - Pregnancy summary

    Not correct archetype but does have birth history
- Medication History
  - openEHR-EHR-OBSERVATION.medication_statement.v0
- Disability
  - CVI Status (certificate of vision impairment)

    Standards and guidance | The Royal ...

History

- History
  - OBSERVATION.story
    - History
- Contextual PL
  - Systemic Diagnosis
    - openEHR-EHR-EVALUATION.problem_diagnosis.v1
  - Systemic surgical history

- openEHR-EHR-ACTION.procedure.v1

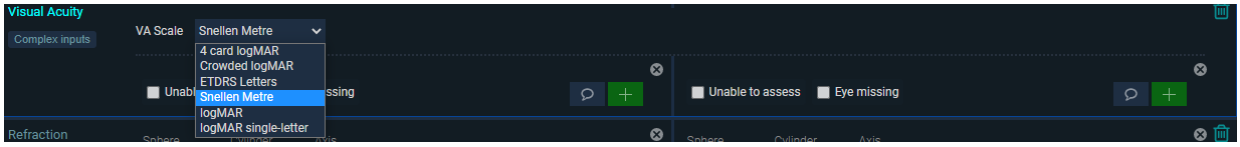
- Ophthalmic surgical history
  - openEHR-EHR-ACTION.procedure.v1

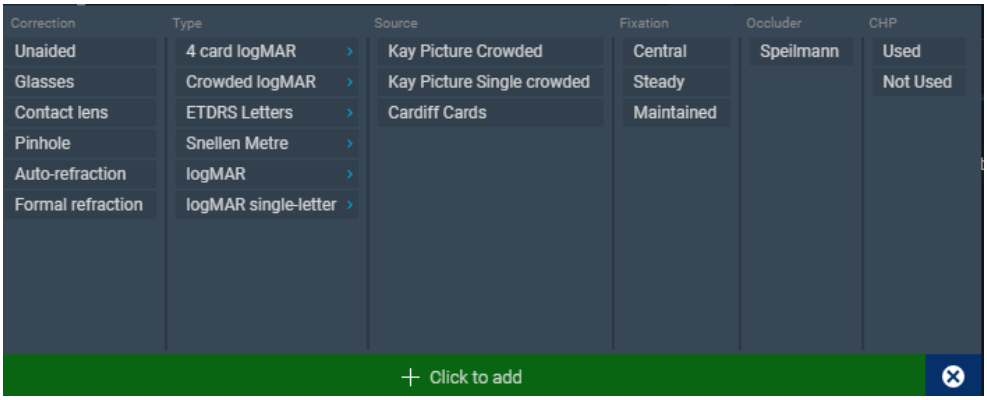
General Observations

- openEHR-EHR-OBSERVATION.blood_pressure.v2
- openEHR-EHR-OBSERVATION.body_weight.v2
- openEHR-EHR-OBSERVATION.pulse_oximetry.v1
- openEHR-EHR-OBSERVATION.height.v2
- openEHR-EHR-OBSERVATION.pulse.v2
- openEHR-EHR-OBSERVATION.body_mass_index.v2

Visual Function

- Visual Acuity



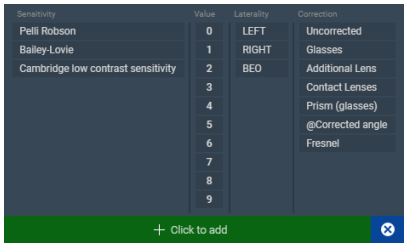


  - openEHR-EHR-OBSERVATION.visual_acuity.v0

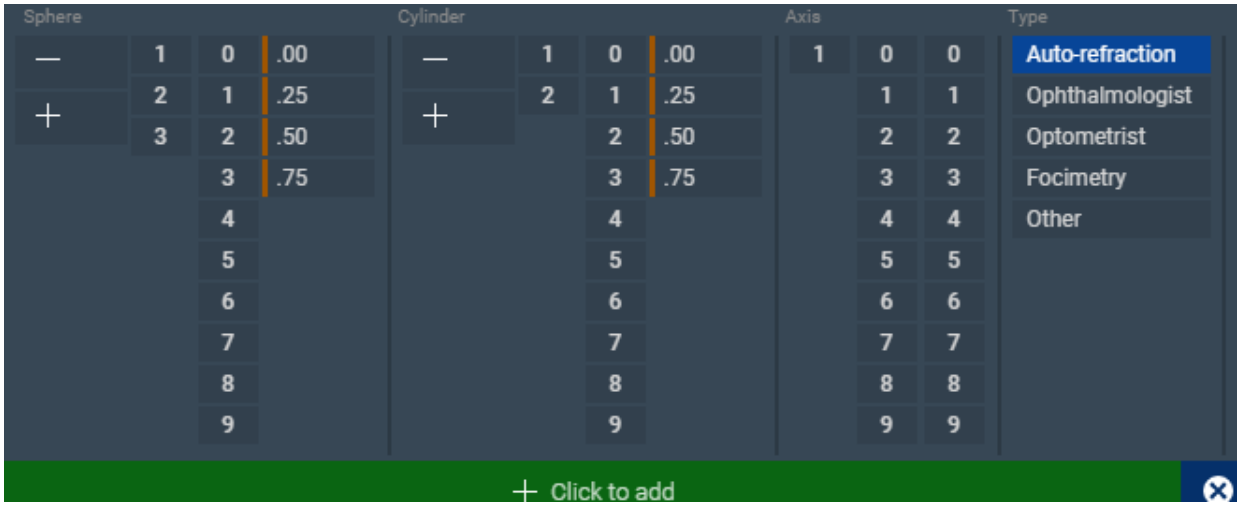
- Near Visual Acuity
  - openEHR-EHR-OBSERVATION.visual_acuity.v0

- Colour Vision

- 🔴 Contrast Sensitivity
  - http://optometryzone.com/2016/12/3...



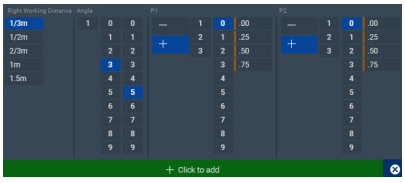
- 🟢 Refraction



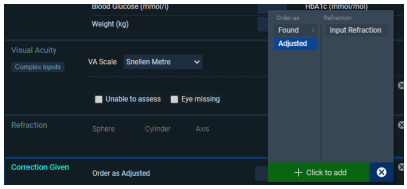
  - openEHR-EHR-OBSERVATION.refraction.v0

- 🔴 Retinoscopy

  - Detailed view



- 🔴 Correction Given

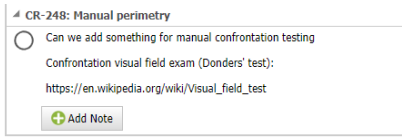


  - New archetype for Ocular Prescription or possibly use service request and refraction details cluster

- Functional testing

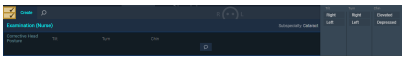
- Visual acuity
  OBSERVATION.visual_acuity.v0

- Visual field



- Refraction
  CLUSTER.refraction_details.v0

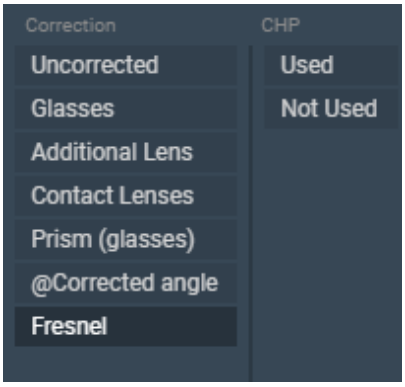
- Intraocular pressure (IOP)
  OBSERVATION.intraocular_pressure.v0
- Bot eyes
  CLUSTER.exam-eyes.v0
  - Squint aka strabismus
  - Brückner reflex
  - Hirschberg reflex
  - Stereopsis
    - Lang
    - TNO
    - More...
  - Binocular vision (not acuity)
- One eye
  CLUSTER.exam-eye.v0
  - Red reflex
- Orthoptic Testing
  - Corrective Head Posture



- 🔴 Cover Test

- 🔴 Nine Positions

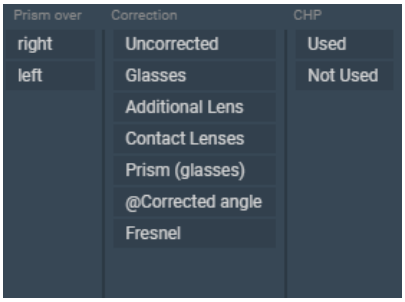
- 🔴 Convergence & Accomodation



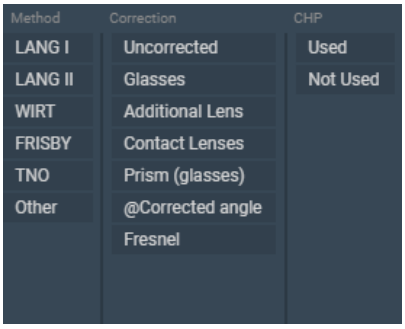
- 🔴 Sensory Function

- 🔴 Prism Reflex Test

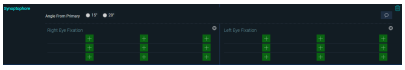
- 🔴 Prism Function Range



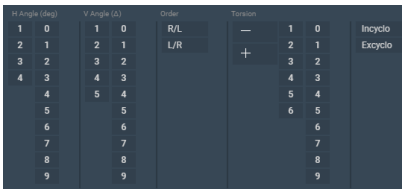
- 🔴 Stereoacuity



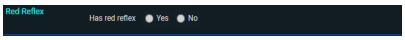
- 🔴 Synoptophore



  - Additional items



- 🔴 Red Reflex

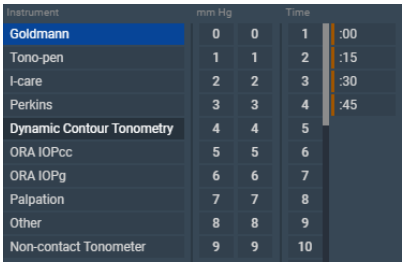


- 🔴 Post-Op Diplopia Risk

- 🟠 Intraocular pressure
  - Inraocular Pressure

    - openEHR-EHR-OBSERVATION.intraocular_pressure.v0

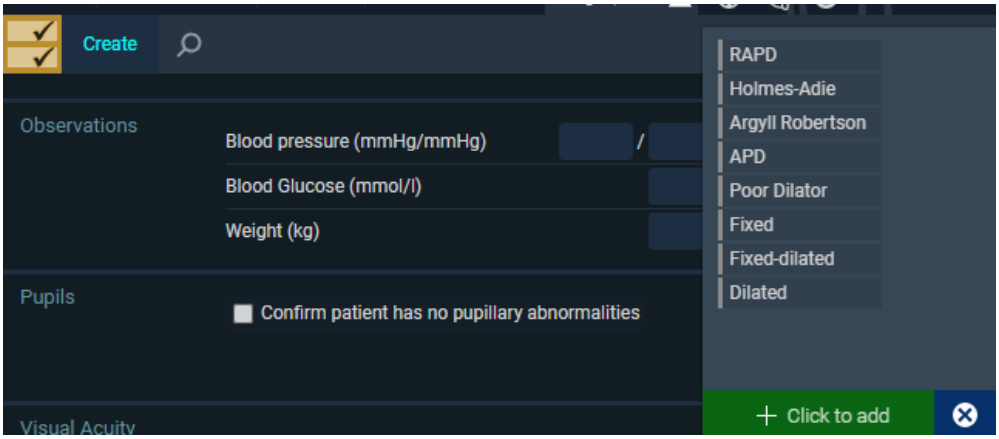
- IOP History



Eye Examination

External exam

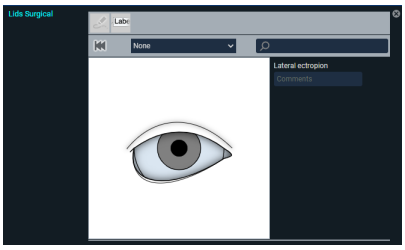
🟢 Pupils



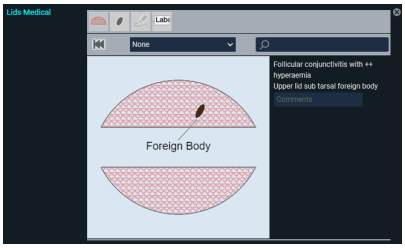
- Examination of a pupil, Draft archetype [Internet]. openEHR Foundation, openEHR Clinical Knowledge Manager [cited: 2021-02-16]. Available from: https://ckm.openehr.org/ckm/archetypes/1013.1.3882

Adnexal

- 🔴 Adnexal
- 🔴 Lids Surgical

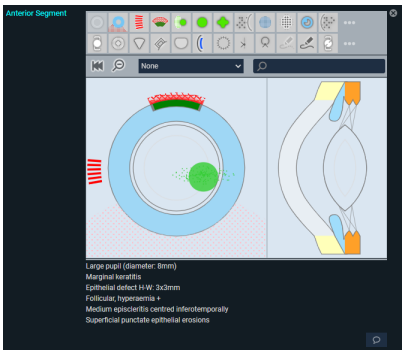


- 🔴 Lids Medical

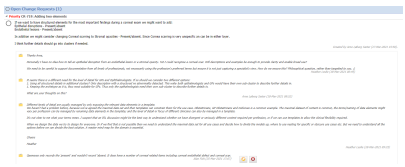


- Eye lids
  CLUSTER.exam-eyelid.v0
  - Upper
  - Lower
  - Function and palpebral fissure
- Surrounding tissue
- Lacrimal system

- Anterior parts
  - Anterior Segment
    - Anterior Segment

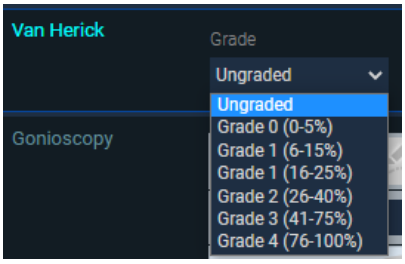


- Examination Findings - Anterior Chamber, Draft archetype [Internet]. openEHR Foundation, openEHR Clinical Knowledge Manager [cited: 2021-02-16]. Available from: https://ckm.openehr.org/ckm/archetypes/1013.1.1404



- 🔴 Van Herick

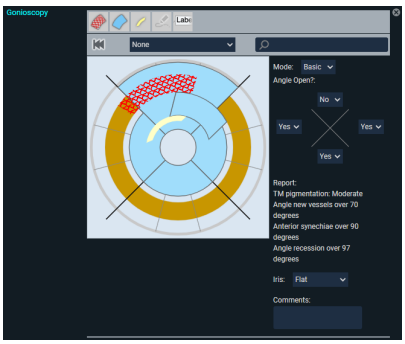
  Van Herick technique - Wikipedia

  The Van Herick technique for grading the depth of anterior chamber angles is one of the easiest methods to estimate the “openness” of the angle.
  With an optic section of the limbal cornea, orient your beam at about a 60 degree angle and compare the width of the corneal section and the width of the shadow adjacent to it.

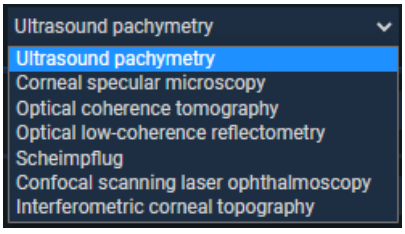
  - 1:1 – Open angle, VH grade 4
  - 1:1/2 – Open angle, VH grade 3
  - 1:1/4 – Narrow angle, VH grade 2 (Angle Closure Possible)
  - 1: <1/4 – Angle closure likely, VH grade 1

- 🔴 Gonioscopy

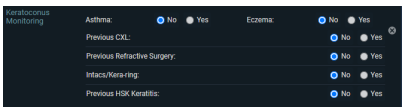
  

- 🔴 Central Corneal Thickness

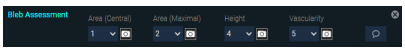
  Central corneal thickness measurem...

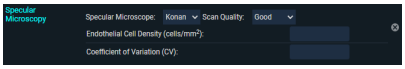
- 🔴 Keratoconus Monitoring

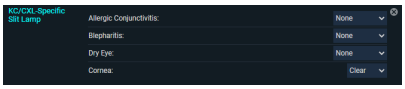
- 🔴 Bleb Assessment



- 🔴 Specular Microscopy



- 🔴 KC/CXL-Specific Slit Lamp

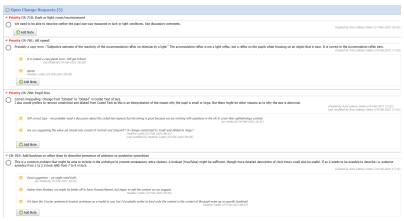


- 🟠 Cornea CLUSTER.exam-cornea.v0
  - Epithelium
  - Stroma
  - Endothelium
- 🔴 Anterior Chamber
  - 🔴 Gnoioscopy aka Anterior chamber angle exam
    - More details to come..
  - 🟠 Anterior chamber fluid CLUSTER.exam-aqueous_humour.v0
    - Flare
    - Cell count
    - Hypopyon (yes/no?) More?
    - Keratic precipitates (KPs) aka corneal endothelial deposits
      - Yes/no
      - Quality of deposits?
      - Quantity of deposits?
- 🔴 Bulbus (conjunctiva & sclera)
- 🟠 Lens CLUSTER.exam-lens.v0

  - Cataracts
    - Yes/No

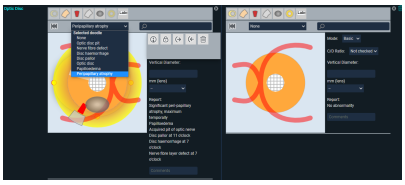
- Type & degree of cataracts
- More details to come..

- Iris
  - More details to come..
- Pupil
  CLUSTER.exam-pupil.v0



  - Subtopic 1

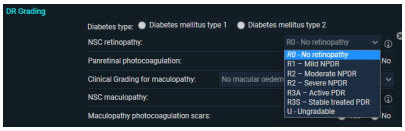
- Posterior parts
  - Fundus aka retinal exam
    CLUSTER.exam-retina.v0
    - Macula
    - Peripheral fundus/retina
  - Optic Nerve Head (ONH) exam
    - Cup-to-disc ratio
    - Color of ONH
    - More details to come...
  - Vitreous body aka vitreous humor
    CLUSTER.exam-aqueous_humour.v0
    - Pathological findings
      - Yes-No
    - More details to come..
  - Optic Disc



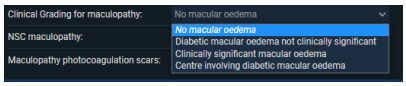
- Fundoscopic examination of eyes, Draft archetype [Internet]. openEHR Foundation, openEHR Clinical Knowledge Manager [cited: 2021-02-16]. Available from: https://ckm.openehr.org/ckm/archetypes/1013.1.208

- Retina
  - Macula

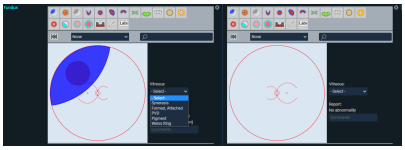
  - DR Grading



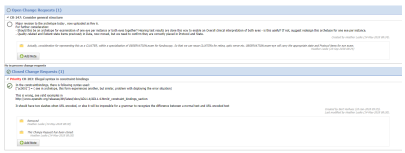
    - Additional detail



  - Fundus



  - Fundoscopic examination of eyes, Draft archetype [Internet]. openEHR Foundation, openEHR Clinical Knowledge Manager [cited: 2021-02-16]. Available from: https://ckm.openehr.org/ckm/archetypes/1013.1.208



Drops

- Medication management, Published archetype [Internet]. openEHR Foundation, openEHR Clinical Knowledge Manager [cited: 2021-02-16]. Available from: https://ckm.openehr.org/ckm/archetypes/1013.1.123

Ophthalmic Diagnosis

- Ophthalmic Diagnosis
  - EVALUATION.problem_diagnosis
    - Diagnosis
- Further Findings

- **Investigation**
  - Investigation
    - 🟢 Service request for orders
  - 🟢 lab tests
  - 🟢 Imaging results
    - Imaging examination result, Draft archetype [Internet]. openEHR Foundation, openEHR Clinical Knowledge Manager [cited: 2021-02-16]. Available from: https://ckm.openehr.org/ckm/archetypes/1013.1.1494
      - 🟢 OCT (Manual)
      - 🟢 OCT
      - 🟢 Corneal Tomography
- 🔴 **Glaucoma Risk**
- 🔴 ❓ **PCR Risk**
- **Clinical Management**
  - Clinical Management
    - ACTION.procedure
      - Treatment
  - Cataract Surgical Management
    - ACTION.procedure
      - Treatment
  - Medication Management
    - CLUSTER.medication
      - Prescriptions
  - ❓ Glaucoma Overall Plan
  - ❓ Glaucoma Current Plan
  - ❓ Laser Management
  - ❓ Injection Management
  - ❓ Strabismus Management
- **Follow-up**

- Review, Draft archetype [Internet]. openEHR Foundation, openEHR Clinical Knowledge Manager [cited: 2021-02-16]. Available from: https://ckm.openehr.org/ckm/archetypes/1013.1.1326

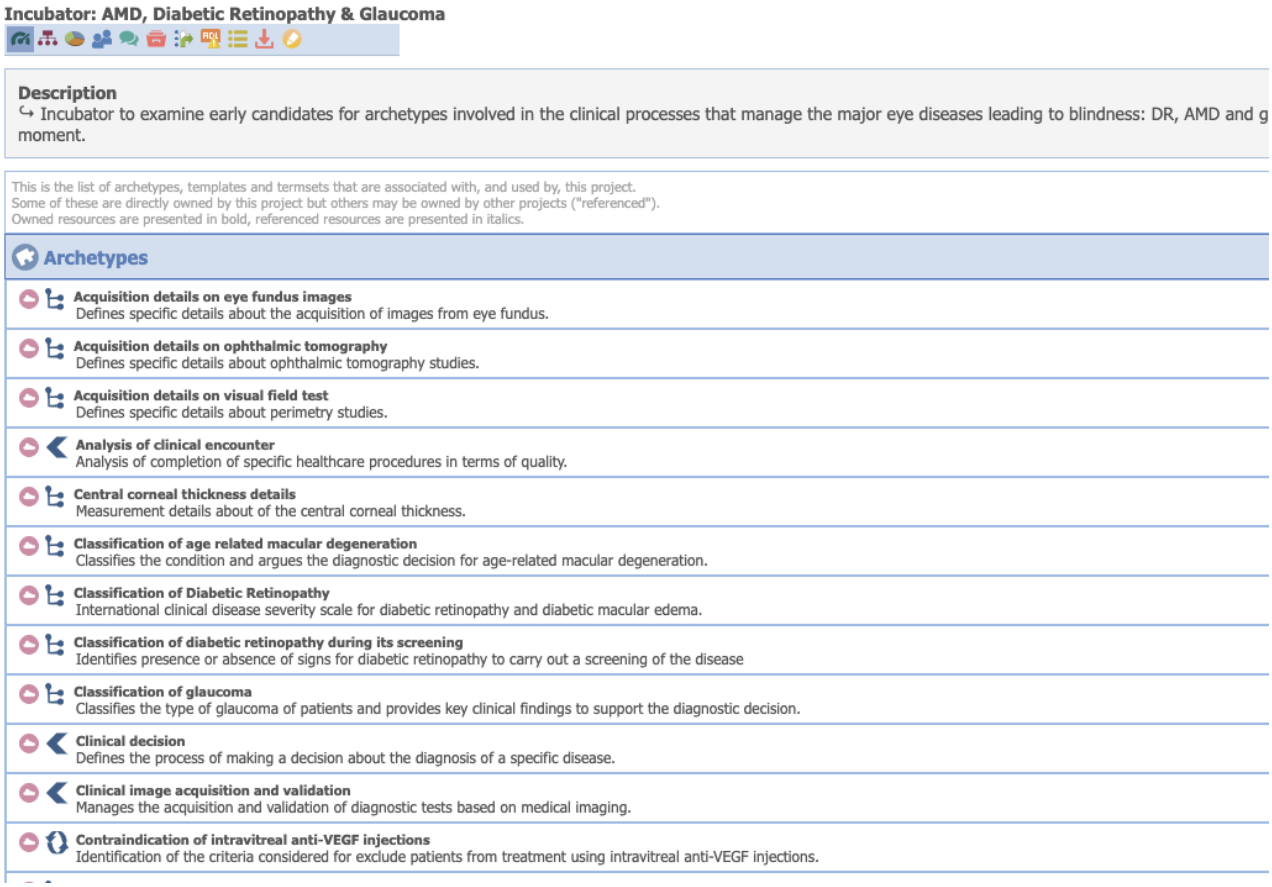
Post-op Complications

- ACTION.procedure
  - complications

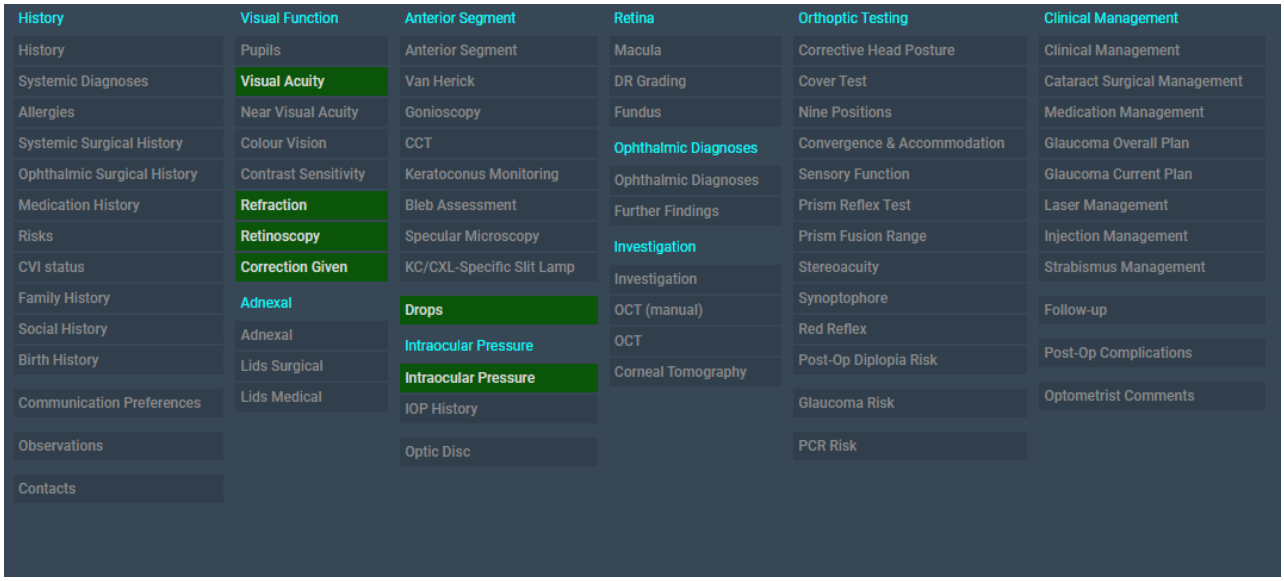
Optometrist Comments

- Comments
  - Clinical synopsis, Published archetype [Internet]. openEHR Foundation, openEHR Clinical Knowledge Manager [cited: 2021-02-16]. Available from: https://ckm.openehr.org/ckm/archetypes/1013.1.409

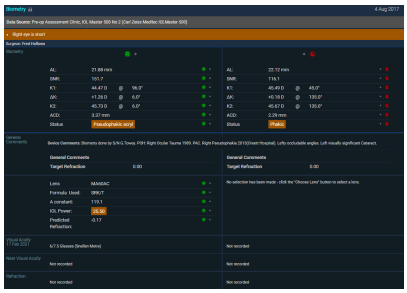
Arne



- https://ckm.openehr.org/ckm/incubators/1013.30.6

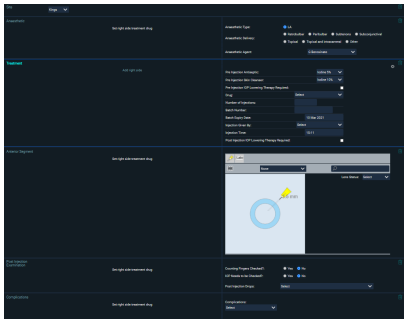


Biometry Event



- Biometry
- Target Refraction
- Lens detail
- Visual Acuity
- Near Visual Acuity
- Refraction

Injection Event



- Site (Location)
- Anesthetic

- Treatment
- Anterior Segment
- Post Injection Examination
- Complications